ZHIDKOVA, Z. V.

Kravets, T. P., Pes'kina, A. L. and Zhidkova, Z. V. Some new data on the absorption of light in solutions and in adsorbed layers. Pages 193 - 501.

SO: Bulletin of the Academy of Sciences, Izvestia, (USSR) Vol. 11, No. 11.

(1950) Series on Physics.

ZHIDKOVA, Z. V.

USSR/Physics - Chromatography

Jul 51

"M. S. Tsvet's Chromatographic Method of Analysis," Z. V. Zhičkova

"Uspekh Fiz Nauk" Vol XLIV, No 3, pp 369-392

Chromatographic adsorption method devised by
Tsvet is based on selective adsorption of one
component contained by the compd. It is applied in analyses of foods and of pharmaceutical products. It facilitates the sepn of isomers and explains the connection between adsorptive ability of org substances and mol struc-

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DUBININ, M.M., akademik, otvetstvennyy redaktor; GAPON, Ie.N.; GAPON, T.B.;

ZHYPAKHINA, Ye.S.; RACHINSKIY, V.V.; BELEN'KAYA, I.M.; SHUVAKYA, G.M.;

ROGINSKIY, S.Z.; YANOVSKIY, N.I.; FUES, N.A.; KISELEV, A.V.; NEYMAHK, I.Ye.;

SLINYAKOVA, I.B.; KHATSET, F.I.; LOSEV; I.P.; TROSTYANSKAYA, Ye.B.;

TEVLINA, A.S.; DAVANKOV, A.B.; SALDADZE, K.M.; BHUMBERG, Ye.M.; THIDKOVA,

Z.Y.; VEDENKEVA, N.Ye.; NAPOL'SKIY, S.A.; MIKHAYLOVA, Ye.A.; KAZANSAII, B.A.;

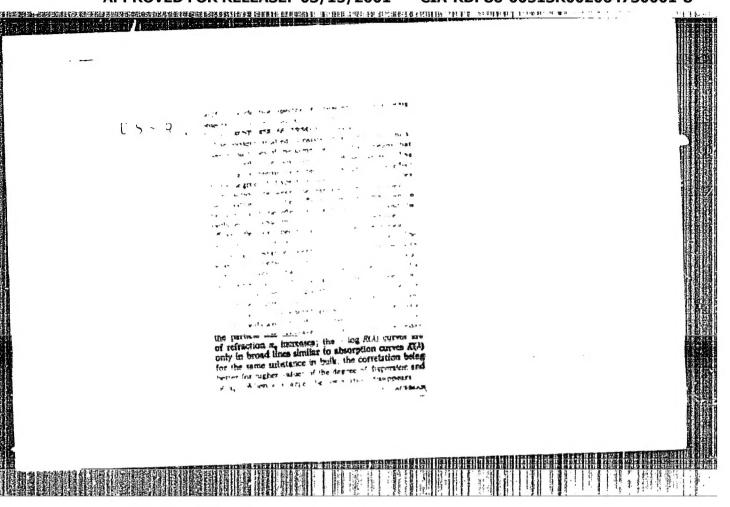
RYABCHIKOV, D.I.; SHEMYAKIN, F.M.; KHETOVICH, V.L.; BUNDEL', A.A.; SAVINOV,

B.G.; VENDT, V.P.; EPSHTEYN, Ya.A.

[Research in the field of chromatography transactions of the All-Union Conference on Chromatography, November 21-24, 1950] Issledovaniia v oblasti khromatografii; trudy Vsesciuznogo soveshchaniia po khromatografii, 21-24 noiabria 1950 g. Moskva, Izd-vo Akademii nauk SSSR, 1952. 225 p. (MLRA 6:5)

1. Akademiya nauk SSSR. Otdelenie khimicheskikh nauk. (Chromatographic analysis)

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"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002064730001-8 48-11-5/13 Zhidkova, Z. V. AUTHOR: On the Determination of the True Absorption of Adsorbed Substances According to the Spectra of Diffuse Reflection (Ob opredelenii istinnogo pogloshcheniya adsorbirovannykh veshchestv po spektram diffuz\* TITLE: nogo otrazheniya). Izvestiya AN SSSR Seriya Fizicheskaya, 1957, Vol. 21, Nr 11, PERIODICAL: pp. 1500-1501 (USSR). This is the summary of a conference which is a continuation of a report by the author in ZhETE, 27, 459 (1954). The investigations on the determination of the true absorption  $K(\lambda)$  of the substance being ABSTRACT: in dispersed state are continued to be developed according to the method of diffuse reflection. The investigation is extended on that sphere of adsorption-phenomena where adsorbed powders, the particles of which show only a painting of the surface, serve as objects. The problem becomes more complicated by the necessity of additionally evaluating and taking account of the physical-chemical factors acting on the absorption spectrum of the adsorbed substance. Powders of molten and unmolten glass - and quartz particles with dyes adsorbed were investigated. The following statements were made on the strength of card 1/2

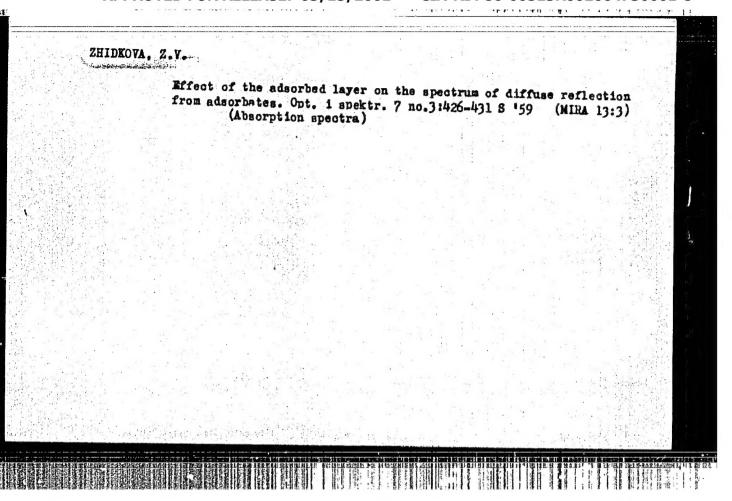
On the Determination of the True Absorption of Adsorbed Substances 48-11-5/13 According to the Spectra of Diffuse Reflection.

the tests: 1) The spectrum of the diffuse reflection, i. e. the spectrum - log R(A) of the adsorbed materia characterizes with resm pect to quality the absorption D (A) of the film of the adsorbed substance: The positions of maxima and minima coincide with the spec" tra -  $\log R$  (A) and D (A). When the D (A) -spectra show some ma= xima, their relative size will be marked by the relative size of the maxima  $\log R(\lambda)$ . 2) The form of  $\log R(\lambda)$  curve is somewhat changed in comparison to the D (A) absorption curve of the film of the adsorbed substance in view of the special way of the light passing through the dispersed media. 3) In contrast to powders containing particles permeated with dye, the change of the geometric grain size of the adsorbent does not form an optic factor for the adsorbed ma= teria which causes a change of the log R (A) spectrum. 4) When the physical-chemical properties of the "adsorbed" surface vary any= how with the variation of the adsorbent dispersion, the  $-\log R(\lambda)$ -spectra can widely differ. The variation of the  $-\log R(\lambda)$  spectrum represents in these cases the actual change of state of the dye adsorbed in the powder with the change of the grain-size of the powder. There are 2 Slavic references.

AVAILABLE:

Library of Congress.

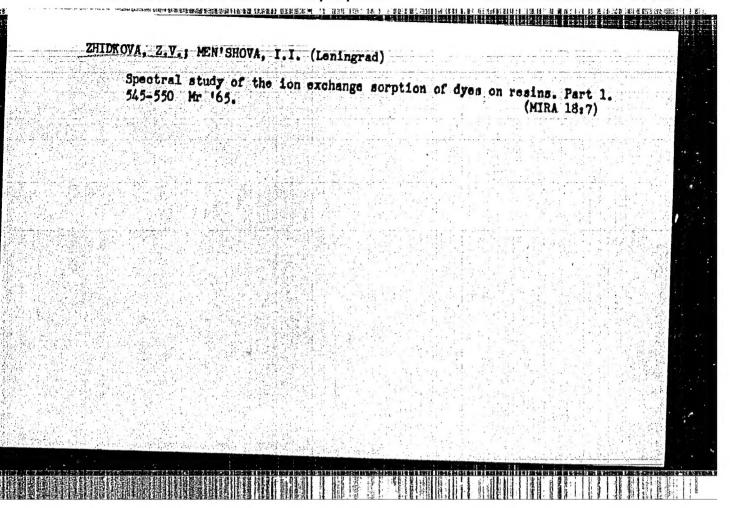
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ZHIDKOVA, Z.V.; MEN'SHOVA, I.I.; IVAKOVA, Ye.I.

Diffuse reflection spectra as dependent on the sorbate particle aiza in ion-exchange sorption on rosins. Zhur. fiz. khim. 38 no.5:13222-1323 My '64.

1. Submitted June 20, 1963.



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AUTHOR:

Zhidkova, Z.V.

On the Effect of Thickness of the Adsorbed Layer on the Diffuse

Reflection Spectrum of Adsorbates TITLE

PERICDICAL:Optika i spektroskopiya, 1959, Vol 7, Nr 3, pp 426-451 (USSR)

ABSTRACT: Adsorbed layers of various thicknesses of the following dyes were

3,1'-diethyl-5,8-dimethyl-8-chlorthia-4'-quinocarbocyanine iodide (dye Nr 3),

1,3-diethyl-thia-2'-cyanine iodide (dye Nr 4), 5,5'-dichloro-3,3',9-triethylcarbocyanine bromide (dye Nr 6).

These dyes were supplied by Z.L. Petrushkina. Dimensions of the dye molecules were taken from published data (Refs 9, 10). The dyes were adsorbed on powders of glass TF-5, prepared as described earlier (Ref 11), and on powders of silver chloride. The adsorbed layer thickness was deduced from the adsorption isotherms. The absorption spectrum of the alcohol solutions of the dye Mr 3 is shown in Fig 3. Fig 4 shows the adsorption isotherm for the dye Er 3 on silver chloride; the abscissa represents the equilibrium concentration of the dye in mole per litre (Ceq) and the ordinate represents the amount (m) of the dye in grams adsorbed

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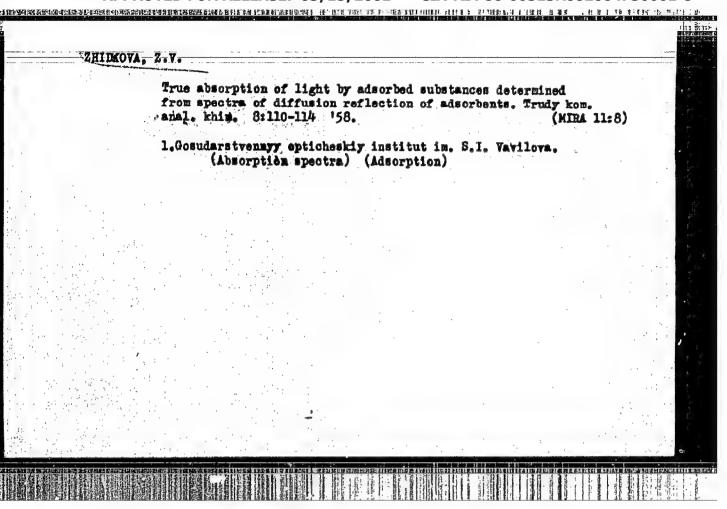
On the Effect of Thickness of the Adsorbed Layer on the Diffuse Reflection Spectrum

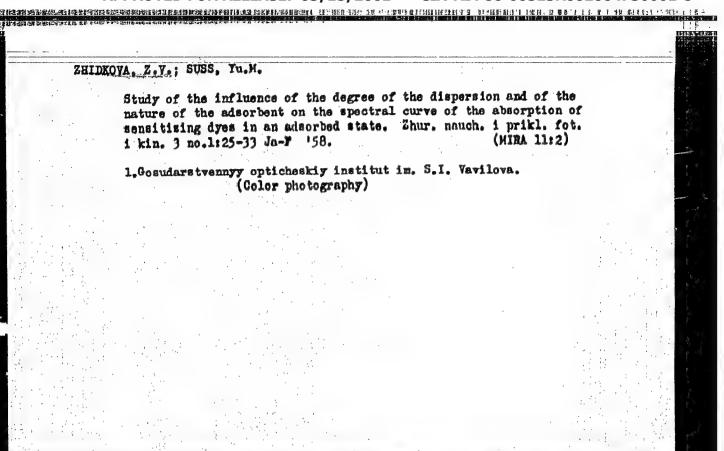
on 1 gram of silver chloride or TF-5 glass. The results of Figs 4 and 5 refer to adsorption from alcohol-water solutions. Fig 5 shows that  $C_{eq}/m$  is a linear function of  $C_{eq}$  in the case of the dye Nr 3 adsorbed on AgCl. The diffuse reflection spectrum of the dye Nr 3 adsorbed on AgCl is shown in Fig 6 for different thicknesses of the adsorbed layer. Similar results were obtained for the other dyes. The author ends with the conclusion that the diffuse reflection spectra of adsorbed dyes are not greatly disturbed when the adsorbed-layer thickness is varied and consequently the diffuse reflection spectra can be used for qualitative determination of the absorption spectra. Acknowledgment is made to Prof. M.V. Savost'yanova for her advice. There are 6 figures and 21 references, 14 of which are Soviet, 4 English, 1 French, 1 Japanese and 1 translation into Russian.

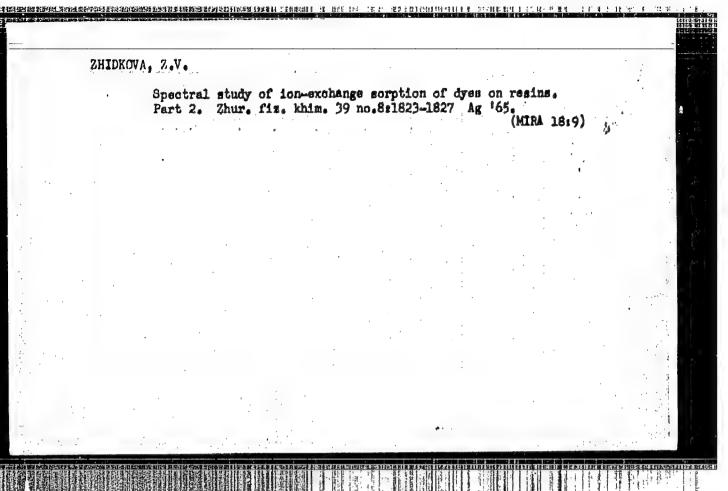
SUBMITTED: August 20, 1958

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AUTHORS: TITLE:

Thixotropic Systems on the Base of the Unsaturated [H-1 (PN-1)

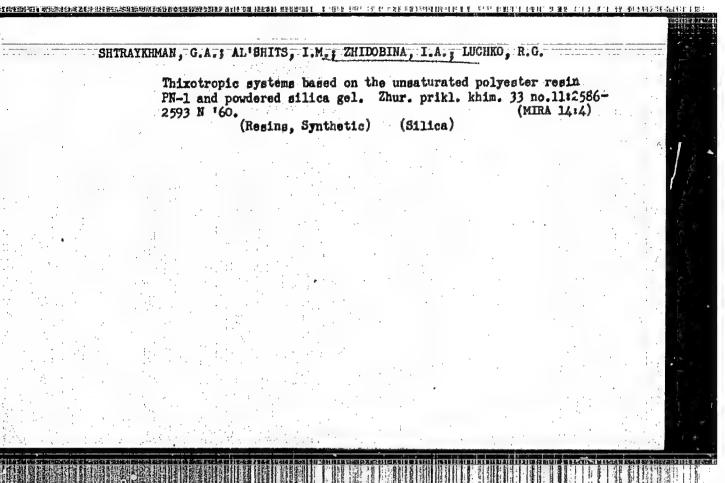
Polyester Resin and Powdered Silica Gel

Zhurnal prikladnov khimii, 1960, Vol. 33, No. 11, pp. 2586-2593

The thixotropic properties of suspensions were investigated consisting of unsaturated polyester resin and some types of powdered silica gel with a PERIODICAL: view to using them in the manufacture of articles made of glass plastics with view to using them in the manufacture of afficies made of grass plantics with vertical and inclined surfaces. In the experiments the PN-1 resin was used which is produced according to BTY 33024-59 MCHX (VII 33024-59 LSNKh). Several types of powdered silica gel, like the types A(A), Y-333 (U-333) and various experimental samples were studied. The was found that for the impresention of glass mental samples were studied. It was found that for the impregnation of glass fabrics on vertical surfaces only one third of binding material is needed to prevent flowing-off compared to other glass plastics products. The efficiency of the thixotropic filler depends on the degree of its dispersion. With an increase une whixotropid litter depends on the degree of the dispersion, then the increases in dispersion the efficiency increases rapidly in the beginning, then the increase benomes slower and, after reaching a certain value, it has no appreciable effect

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ZHIDOBTSEV, V. M.

"The Results of Liquidating the Foci of Enterobiosis in Children's Boarding Institutes." Cand Med Sci, Khar'kov Medical Inst, Khar'kov, 1955. (KL, No 18, Apr 55)

SO: Sum. No. 704, 2 Nov 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (16).

#### ZHIDOMIROV, G.M ; MOLIN, Yu.W.

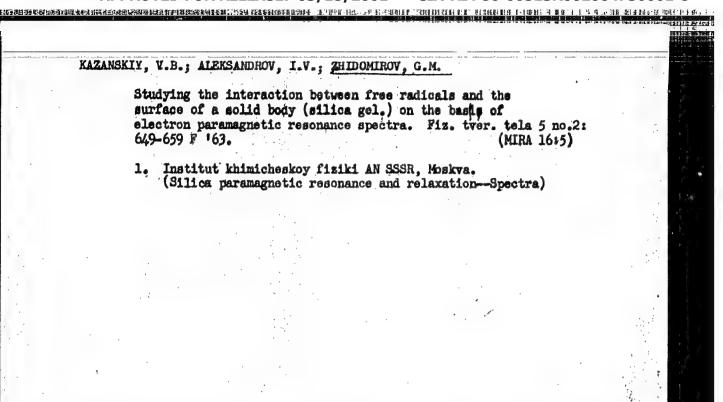
Differences in the widening of separate components of the hyperfine structure in electron paramagnetic resonance spectra of radicals with several  $\alpha$ -protons. Zhur.strukt.khim. 3 no.6: 669-675 '62. (MIRA 15:12)

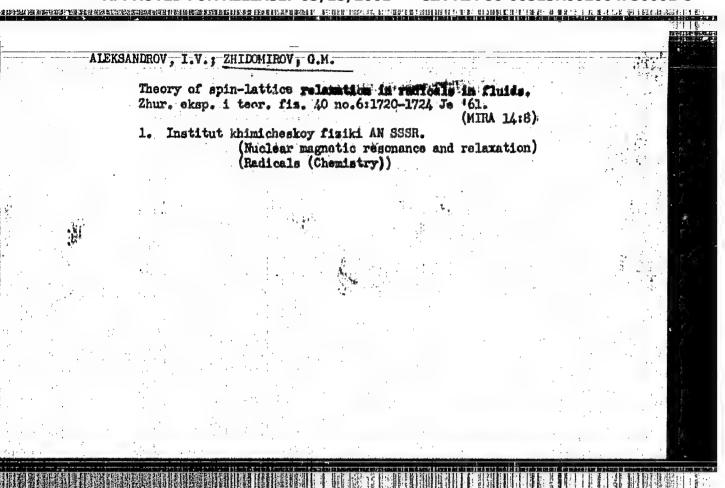
1. Institut khimicheskoy kinetiki 1 goreniya Sibirskogo otdeleniya AN SSSR, Novosibirsk. (Radicals (Chemistry)—Spectra)

PARIYSKIY, O.B.; ZHIDOMIROV, G.M.; KAZABSKIY, V.B.

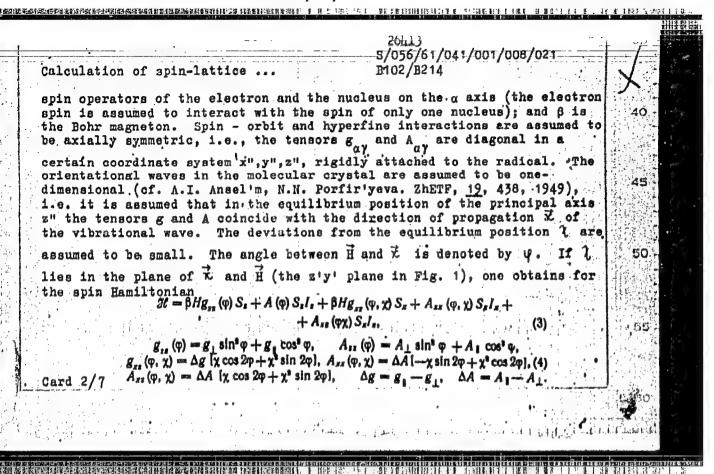
Spectrum of electron paramagnetic resonance of a methyl radical adsorbed on the silica gel surface. Zhur.strukt.khim. 4 no.3; 364-367 My-Je '63. (MIRA 16:6)

1. Institut khimicheskoy fiziki AN SSSR. (Methyl group—Spectra)





		26l <sub>1</sub> 13 8/056/61/041/001/008/021
24.440 AUTHORS:	O Aleksandrov, I. V.,	B102/B214
TITLE:	Calculation of spin- in molecular crystal	lattice relaxation time for radicals
PERIODICAL:	Zhurnal eksperimenta no. 1(7), 1961, 127	al'noy i teoreticheskoy fiziki, v. 41, -137
the anisotro crystals may 10-3 sec. T in a magneti spin Hamilto are the tens to be made of	py of the hyperfine so lead to a spin-lattice he authors considered cally dilute molecular nian of the form $\mathcal{X}$ = ors of spin-orbit and ver the Greek indices	that the anisotropy of the g factor (or tructure) in the radicals of molecular ce relaxation time of the order of  the spin-lattice relaxation of a radical r crystal, and based their study on a $\beta \mathcal{G}_{\alpha \gamma} \mathcal{G}_{\alpha \gamma} + \mathcal{A}_{\alpha \gamma} \mathcal{G}_{\alpha \gamma} \mathcal{G}_{\alpha \gamma} $ where $\mathcal{G}_{\alpha \gamma}$ and $\mathcal{A}_{\alpha \gamma}$ hyperfine interactions (A summation is ). H is the component of the external $\mathcal{G}_{\alpha \gamma} \mathcal{G}_{\alpha \gamma} \mathcal{G}$
Card 1/7	b and the second	
		30.4



3/056/61/041/001/008/021 Calculation of spin-lattice B102/B214 If the direction of polarization of the wave is rotated by 90° (% lies in the z'x' plane; Fig. 2), one has  $\mathcal{H} = \beta H g_{zz}(\varphi) S_z + A_{zz}(\varphi) S_z I_z + \beta H g_{zz} S_z + \beta H g_{yz} S_y + A_{zz} S_z I_z +$  $+A_{xy}S_{x}I_{y}+A_{xx}S_{x}I_{x}+A_{yx}S_{y}I_{x}+A_{yy}S_{y}I_{y}+A_{yx}S_{y}I_{x}$  $g_{xz} = \frac{1}{8} \Delta g \chi^2 \sin 2\varphi, \qquad g_{yz} = \Delta g \chi \cos \varphi, \qquad A_{xx} = -\Delta A \chi^3 \sin^2 \varphi,$  $A_{xy} = A_{yx} = -\Delta A \chi \sin \varphi, \qquad A_{xx} = \frac{1}{2} \Delta A \chi^2 \sin 2\varphi,$  $A_{yy} = \Delta A \chi^3, \quad A_{yz} = \Delta A \chi \cos \varphi.$ In both forms, the terms which are not important for the investigations have been neglected. For calculation of the probability of a relaxation transition between any two levels of the spin system, the spin Hamiltonian 20 in the form  $\mathcal{H} = \beta Hg(\psi)S_z + \Lambda(\psi)S_zI_z + \lambda R_1(\psi) + \chi^2 R_2(\psi)$ can be used for either case. Here  $R_1(y)$  and  $R_2(y)$  are linear combinations of the spin operators with non-vanishing matrix elements for the transition considered. If the term linear in  $\lambda$  (transition with absorption of one orientational phonon) is considered, one obtains for the probability 30

 20413 S/056/61/041/001/008/021 B102/B214
 of one relaxation transition per unit time $w_{12} = \frac{2\pi}{h^2} \left  (1 R_1 2) ^2 \langle  \chi_{1,n+1}(\omega_L) ^2 \rangle g(\omega_L) \right , $
 where $(1 R_1 2)$ is the matrix element between the spin states 1 and 2, $(n_1^2/2)^{1/2}$ is the matrix element between the nth and $(n_1^2/2)^{1/2}$ is the matrix element between the nth and $(n_1^2/2)^{1/2}$ is the matrix element of inertia is $(n_1^2/2)^{1/2}$ is the number of the operational normal vibrations in the frequency
number n, $\hbar\omega_1$ is the distance between the magnetic levels 1 and 2. In the linear model $\omega = \Omega_2 \sqrt{1 + q \cos \eta}$ ; $\omega_2$ is the frequency of rotational
 oscillations of an individual molecule, when all the remaining molecules are in the equilibrium position, $0 \le \eta \le \pi$ . One has $g(\omega) = \begin{cases} 2\omega \left(\pi q \Omega_s^2\right)^{-1} \left[1 - \frac{i}{q^2} \left(\frac{\omega^2}{\Omega_s^2} - 1\right)^s\right]^{-\gamma_0} \operatorname{nph} \Omega_s \sqrt{1 -  q } < \omega < \Omega_s \sqrt{1 +  q } \\ 0 \operatorname{nph} \omega < \Omega_s \sqrt{1 -  q } \times \operatorname{nph} \omega > \Omega_s \sqrt{1 +  q } \end{cases}$
Card 4/7

**建建金物加工技術技术建设过度型效应效用进行的指数型效性的组织体理类组织和现象体理类组织和实验和自己的**第二次,现代的主题,企业的主要专项时间的工作工程。 进口工程,进口工程,这个工程,这个工程,这个工程,这个工程,这个工程,这个工程,

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	20113
Calculation of opin-lattice	5/056/61/041/001/008/021 B102/B214
If one considers the effect of the last in which two phonons take part), one cover no	t term in (7) (relaxation transition btains analogously after averaging
over n: $w_{12} = (2/\pi) ( (1 R_1 2) + (1/\pi)  (1 R_1 2) + (1/\pi)  (1/R_1 2)  (1/\pi)   (1$	) / <i>φ</i> /Ω;)• ×
$\times \int_{\Omega-r}^{\infty} F(\omega) \left[ \left( 1 - \frac{1}{q^4} \left( \frac{\omega^4}{\Omega^4} - 1 \right)^4 \right) \left( 1 - \frac{1}{q^4} \left( \frac{\omega^4}{\Omega^4} - 1 \right)^4 \right) \right]$	$-\frac{1}{q^2}\left(\frac{(\omega+\omega_L)^2}{\Omega^2}-1\right)\right)^{-1/2}d\omega, \qquad (12)$
$F(\omega) = \exp \{ \hbar (\omega + \omega_L)/kT \} / \{ (\exp (\hbar \omega/k) + (\log L) / (\log L) \} \}$	$T)-1)\left(\exp\left(\hbar\left(\omega+\omega_L\right)/kT\right)-1\right)\right].$
A lower bound of (12) is	
$w_{12} > \frac{2}{\pi} \left( \frac{ (1 \mid R_1 \mid 2) }{q J \Omega_2^2} \right)^2 \frac{\exp{(\lambda \Omega_1 \mid 2)}}{(1 - \exp{(\lambda \Omega_2 \mid 2)})^2}$	$\Omega_{max}/\Lambda T$ ) $\Lambda \Omega_{max}/\Lambda T$
In the most interesting case 10/kT 4	1, one has
$w_{12} = \frac{2}{\pi}  \xi(q) \left( \frac{ (1 R_8) }{q\Omega_8^2} J \right)$	$\left(\frac{21}{\Omega_0}\right)^2 \frac{1}{\Omega_0} \left(\frac{kT}{\hbar}\right)^2$ , (14)
$\xi(q) = \frac{27  q^2 \left(\sqrt{1+ q }\right)}{4 \left(1+\frac{1}{2}\sqrt{1+3q^2}\right) \left[3\right]}$	$\frac{-V_{1}-[q])}{[q^{2}-1+V_{1}+3q^{2}]}.$
	30

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	26413		<b>以</b>
Calculation of spin-lattice	.S/056/61/041/ B102/B214'	001/008/021	
Finally, an estimate is given for a specific $1/2 \rightarrow -1/2$ , $-1/2$ ). It is found that	- 1/61 w. A.E.4A/8		
$\frac{1}{2} \frac{1}{2} \frac{2}{\pi}$ . If J = 100.10 'g.cm', T =	200 K, one has 1/T	= W. 3 2 • 10 sec "1.	40
and address of the Time of essentially s	maller than the val	ue 1 sec expented	
V. V. Voyevodskiy at the Institut khimi Chemical Physics. AS USER). The unther	sult obtained in the cheskoy fiziki AN S	ne laboratory of SSR (Institute of	医肾髓管 医囊胚
references: 4 Soviet-blog and 3 non-sour	ions. There are 2	figures and 7	
J. Chem. Phys. 25, 709, 1956; Ref. 3, p. T.	OLLOWS: Ref. 1: H.	M. McConnel.	<b>50</b>
studied by Electron Spin Resonance, Lon Phys. Rev. 57, 426, 1940.	don, 1958; Ref. 5;	I.H. van Vleck.	
ASSOCIATION: Institut khimicheskoy fiz of Chemical Physics of th	iki Akademii nauk S e Academy of Scieno	SSR (Institute es USSR)	14 13 15 15 15 15 15 15 15 15 15 15 15 15 15
SUBMITTED: December 19, 1960			
Card 6/7			
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LEBEDEV, Ya.S.; TSVETKOV, Yu.D.; ZHIDOMIROV, G.M.

Analysis of asymmetrical lines in electron paramagnetic resonance spectra as a method of studying internal movements in polymers. Zhur.strukt.khim. 3 nc.1:21-27 Ja-F '62. (MIRA 15:3)

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1. Institut khimicheskoy fiziki AN SSSR i Institut khimicheskoy kinetiki i goreniya Sibirskogo otdeleniya AN SSSR.

(Polymers—Spectra)

s/192/62/003/005/001/003 D267/D308

AUTHORS:

Zhidomirov, G.M., Lebedev, Ya.S. and Tsvetkov, Yu.D.

TITLE:

Form of line in the electronic paramagnetic resonance spectra of peroxide type radicals in oriented poly-

mers

PERIODICA:

Zhurnal strukturnoy khimii, v. 3, no. 5, 1962, 541-

545

It was shown in an earlier paper that the spectrum of peroxide radicals (RO2) in oriented specimens depends on the orientation of the specimen in the magnetic field. To calculate the line form in the e.p.r. spectrum for oriented specimens the authors assumed that (1) the peroxide radical has an axial symmetry of the gractor and (2) the symmetry axes of this factor are distributed gractor and (2) the symmetry axes or this factor are distributed randomly in the plane S at right angles to the orientation direction of polymer chains. The calculation has been carried out to the end for the case of an infinitely narrow individual line, when the external magnetic field is parallel to the orientation axis. It has

Card 1/2

Form of line ...

S/192/62/003/005/001/003 D267/D308

been shown that the form of the e.p.r. line can be used for determining the degree of orientation of the chains (such estimation has been carried out for a Teflon specimen oriented by stretching). The paper ends with a discussion of the structure of peroxide type radicals (on the strength of the data showing the temperature dependence of the form of e.p.r. lines). There are 3 figures.

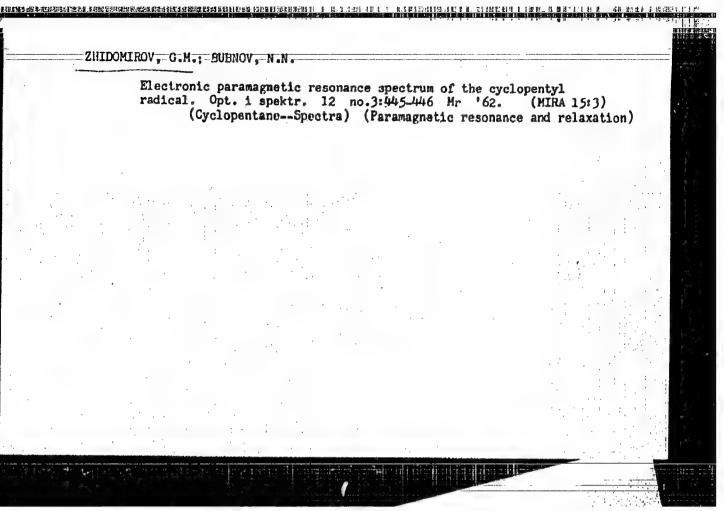
ASSOCIATION:

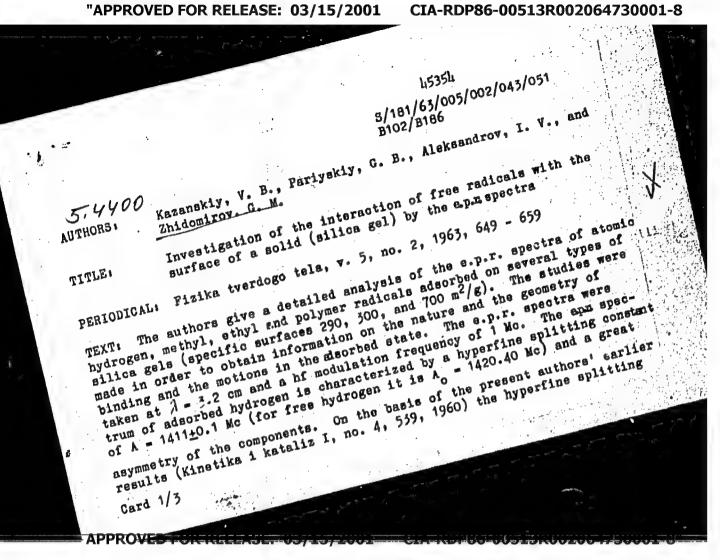
Institut khimicheskoy kinetiki i goreniya SO AN Novosibirsk SSSR (Institute of Chemical Kinetics and Combustion, Siberian Branch of the AS Novosibirsk, USSR); Institut khimicheskoy fiziki AN SSSR (Institute of Chemical Physics, AS USSR)

SUBMITTED:

June 17, 1961

Oard 2/2





Investigation of the ... 8/181/63/005/002/043/051 8102/8186 constants  $A_1$  and  $A_{\parallel}$  for H L E and H  $\|E$ ) are calculated:  $A_1 = A_{ss} = A_{ss} = A - \frac{47}{60} \frac{P_s P_s}{c^3} \lambda^2, \qquad (4a)$   $A_1 = A_{ss} = A + \frac{47}{30} \frac{P_s P_s}{c^3} \lambda^2, \qquad (4b)$   $A = \frac{8}{3} \frac{P_s P_s}{c^3} (1 - 15.5\lambda^3) = A_0 (1 - 15.5\lambda^3); \qquad (4c)$   $A = \frac{47}{20} \frac{P_s P_s}{c^3} = \frac{141}{160} A_0 \lambda^2. \qquad (5); z \|E \text{ and perpendicular to the surface. The to be observed in experiment. The polarization energy of the hydrogen deuterium atoms adsorbed on <math>SiO_2$  is considerably narrower and is symmetrical, with smaller amplitudes of the side components. The e.p.r. spectrum of the methyl radicals was measured at  $-196^{\circ}C_1$ ; it consists of four hyperine structural lines with a distance of  $23 \cdot 1 \pm 0.1$  oe and with an amplitude Card 2/3

Investigation of the ...

8/181/63/005/002/043/051 B102/B186

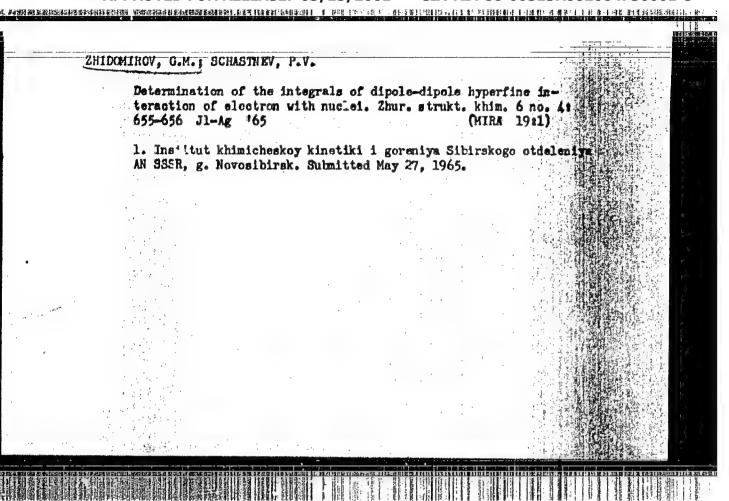
The e.p.r. spectrum of the ethyl radical consists of 12 lines and can be clectron with the protons of the CH<sub>3</sub> group, each quadruplet line being

split into a triplet due to interaction with the CH<sub>2</sub> protons. The e.p.r. spectrum of the polymer radical consists of six broad poorly resolved components (~25 oe distance). The results show that the e.p.r. spectra of advantable radicals differ considerably from those of free radicals or of radicals stabilized in solid polycrystalline matrices. The surface effect becomes apparent in a reduction of the hyperfine splitting constant (for hydrof motion due to losses of degrees of freedom or of equilibrium positions of the radicals in the matrices. There are 9 figures and 1 table.

ASSOCIATION: Institut khimicheskoy fiziki AN SSSR, Moskva (Institute of Chemical Physics AS USSR, Moscow)

SUBMITTED: Card 3/3

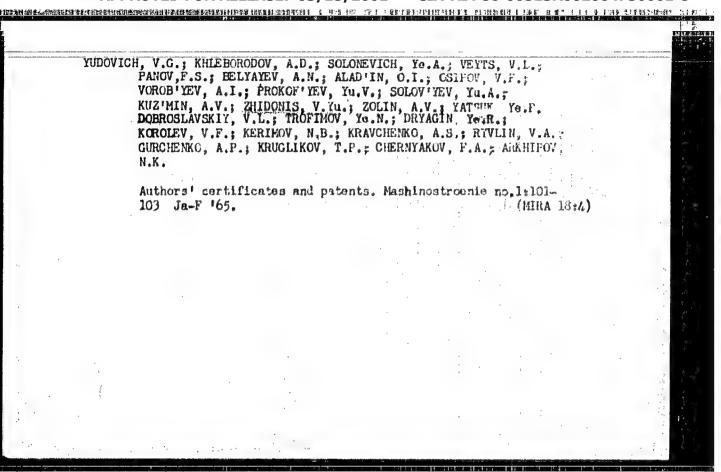
September 27, 1962

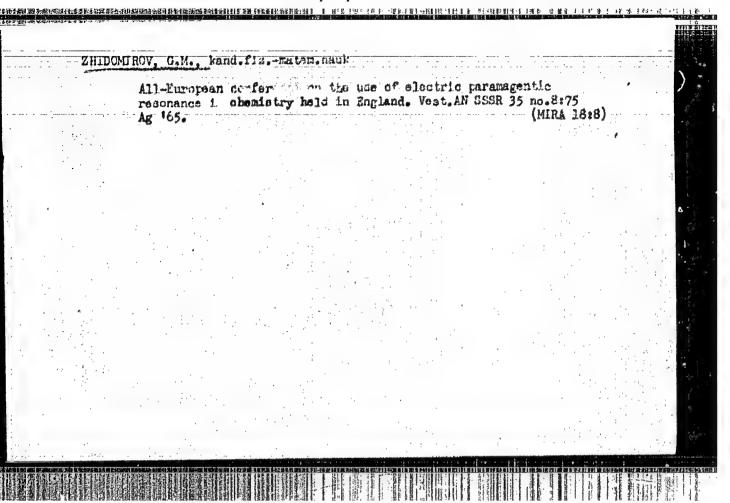


ZHIDMIROV, G.M.; SCHASTNEV, P.V.

Hyperfine interaction of unpaired electrons with methyl group nuclei in Tpelectron radicals. Teoret. i eksper. khim. 1 no. 5: 649-654. S-0 \*65 (MIRA 19:1)

1. Institut khimicheskoy kinetiki i goreniya "ibirskogo otdeleniya AN SSSR, Novosibirsk. Submitted June 23, 1965.

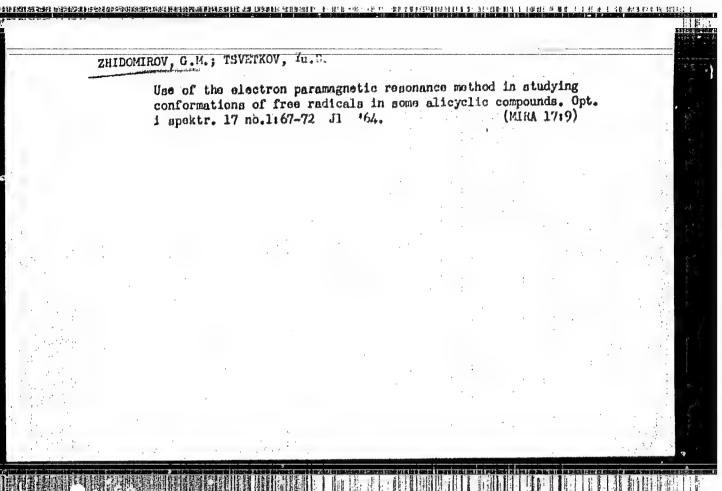




#### SCHASTNEV, P.V.; ZHIDOMIROV, G.M.

Isotropic hyperfine splitting on a fluorine nucleus in electronparamagnetic resonance spectra of free radicals. Zhur. strukt. khim. 5 no.6:839-844 N-D \*64. (MIRA 18:4)

1. Institut khimicheskoy kinetiki i goreniya Sibirskogo otdeleniya AN SSSR, Novosibirsk.



Schastney, P.V.; Zhidomirov, C.M.

Semiempirical theory of isotopic superfine splitting in the electron paramagnetic resonance spectra of free radicals.

Dokl. AN SSSR 153 no.1:151-153 N '63. (MIRA 17:1)

1. Institut khimicheskoy kinetiki i goreniya Sibirskogo otdeleniya AN SSSR. Predstavleno akademikom V.N. Kondratiyevym.

### VASAUSKAS, S.S.; ZHIDONIS, V.Yu.

Hardness diagram and its use in determining the characteristics of metal strength. Zav.lab. 28 no.5:605-608 '62. (MIRA 15:6)

1. Kaunasskiy politekhnicheskiy institut,
(Metals-Testing) (Brinell test)

37054 s/032/62/028/005/008/009 B117/B101

Vasauskas, S. S., and Zhidonis, V. Yu.

TITLE:

The hardness diagram and its application in determining the strength characteristics of metals

Zavodskaya laboratoriya, v. 28, no. 5, 1962, 605-608

TEXT: A method of testing metal samples for their elastic limit, yield and breaking points by using only Brinell's hardness test, no tensile tests being required, is recommended. It is shown that the change in the hardness number, depending on the degree of plastic deformation, can be observed by using conical indenting tools (made of alloys with HRA up to 80) with different point angles (0-180). The deformation, which was found to depend on the point angle of the cone, can be calculated and is proportional to the specific transverse contraction of the sample in tensile tests. A diagram based on the ratio between the hardness number and the point angle of the indenting cone shows that the critical value of hardness and strength can be determined with one indenting cone only: yield point of steels with

Card 1/2

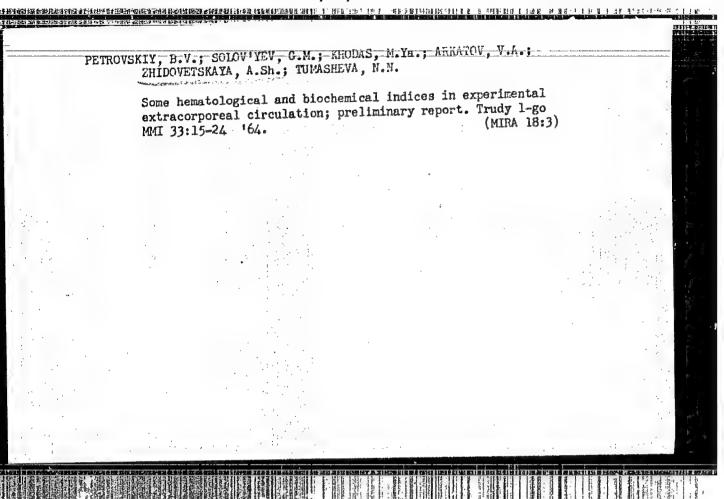
S/032/62/028/003/008/009 B117/B101

The hardness diagram and its ...

a cone whose point angle is  $\varphi=160^\circ$ ; breaking point of steels and commercial nonferrous metals with a cone of  $\varphi=120^\circ$ , etc. Yield and breaking points under elongation were determined from the respective hardness numbers, and the following relations were found:  $\sigma_{\rm S}=0.25~{\rm H_S}$  and  $\sigma_{\rm B}=0.30~{\rm H_B}$ . (H<sub>S</sub> is the hardness number in the indentation of a cone of  $\varphi=160^\circ$ , and H<sub>B</sub> the one for  $\varphi=120^\circ$ ). H<sub>S</sub> and H<sub>B</sub> correspond to the critical values of the hardness numbers on the hardness diagram and can be found with an indenting tool of any shape. There are 5 figures.

ASSOCIATION: Kaunasskiy politekhnicheskiy institut (Kaunas Polytechnic Institute)

Card 2/2



KHODAS, M.Ya. (Moskva, Krasnopresnenskaya nab.d.1/2,kv.163); PYATNITSKAYA, G.Kh.; ZHIDOVETSKAYA, A.S.

Neutralization of heparin by protamine sulfate during artificial blood circulation. Klin.khir. no.7:59-62 Jl '62. (MIRA 15:9)

1. Laboratoriya iskusatvennogo krovoobrashcheniya (nauchnyy rukovoditel' - deystvitel'nyy chlen AMN SSSR prof. B.V.Petrovskiy, zav. - koktor med.nauk G.M.Solov'yev) Nauchno-issledovatel'skogo instituta eksperimental'noy khirurgicheskoy apparatury i instrumentariya na baze gospital'noy khirurgicheskoy kliniki. (HEPARIN) (PROTAMINES) (ELOOD—CIRCULATION, ARTIFICIAL)

GALANOV, I.G., otv. red.; MATLAKHOV, S.G., otv. red.; POLESIN, Ya.L., red.; BOGOMOLOV, A.I., red.; ZHELEZNYAKOVA, M.A., red.; ZHIDOVETSKIY, B.V., red.; ZIL'BERSHTEIN, I.A., red.; KANER, I.Ye., Ted.; KIXUYEVA, Ye.P., red.; KOZLOVA, Ye.I., red.; MAKAROV, A.D., red.; SAMARTSEV, A.I., red.; SOLOPKO, A.P., red.; TIKHONOV, V.A., red.; VOLKOVA, V.A., ved. red.

[Safety regulations in the gas industry; regulations obligatory for all ministries, departments, and organizations] Pravila bezopasnosti v gazovom khoziaistve; pravila obiazatel'ny dlia vsekh ministerstv, vedomstv i organizatsii. Perer. i dop. izd. Moskva, Nedra, 1965. 143 p. (MIRA 18:3)

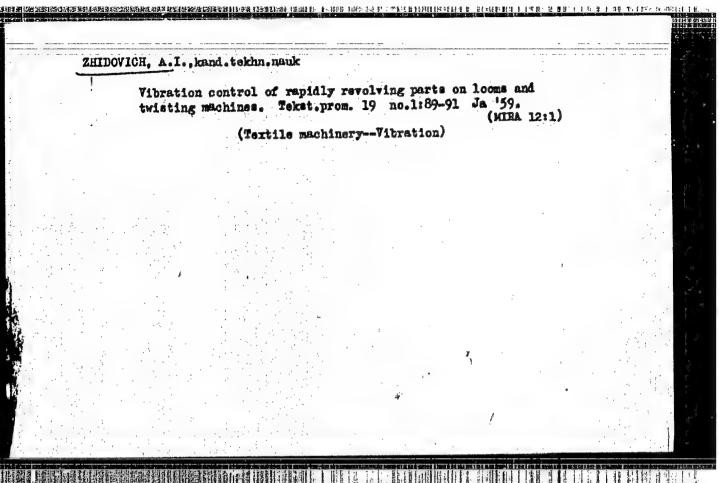
1. Russia (1917- R.S.F.S.R.) Gosudarstvennyy komitet po nadzoru za bezopasnym vedeniem rabot v promyshlemnosti i gornomu nadzoru.

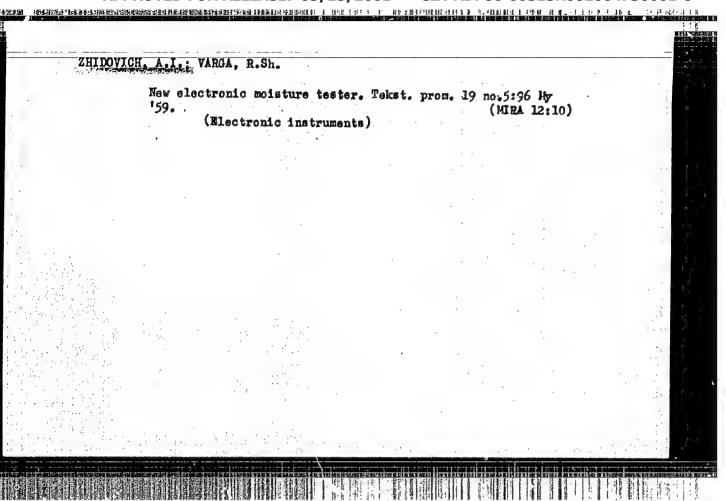
ZHIDOVICH, A.I., kand. tekhn. nauk

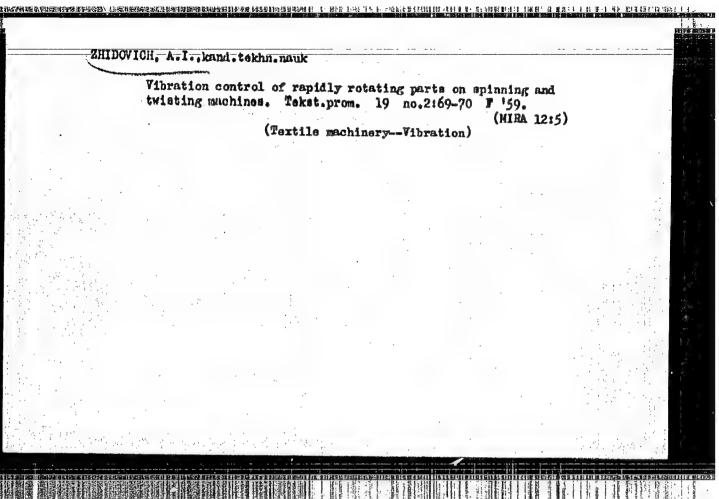
Selecting the type of regulators for the control of the process of lumber drying in lumber kilns. Der. prom. 13 no.8:10-12 Ag '64.

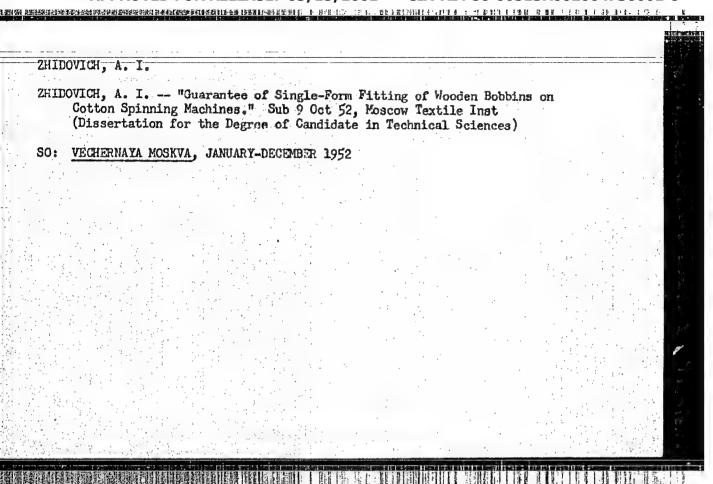
(MIRA 17:11)

1. TSentral'nyy nauchno-issledovatel'skiy institut vspomogatel'nykh izdeliy i zapasnykh detaley k tekstil'nomu oborudovaniyu.









ZHIDOVICH, A.T., kard.tekhn.nauk; VARGA, R.Sh., kard.tekhn.nauk; KONKIN, O.N., inzh.; KURZIN, B.A., inzh.

Automatic regulator for controlling the drying of the wood of hardwood species. Der. prom. 12 no.11:6-7 N '63. (MIRA 17:1)

ZHDOVICH, A.I.. kandidat tekhnicheskikh nauk

Measures to increase the productivity of silk twisters. Tekst.prom.
15 no.8126-28 Ag 155.

(Silk manufacture)

ZHIDOVICH, A.I., kandidat tekhnicheskikh nauk; EREYDEARD, B.M., mladshiy nauchnyy sotrudnik.

For an efficient increase in cop weight for cotton spinning machines. Tekst.prop. 16 no.11:20-23 M '56. (MERA 9:12) (Spinning machinery)

112-57-7-14883

Translation from: Referativnyy zhurnal, Elektrotekhnika, 1957, Nr 7, p 155 (USSR)

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AUTHOR: Zhidovich, A. I., Varga, R. Sh., Fuks, I. I., Ivanov, V. D., and Truskin, Ye. M.

TITLE: Device for Checking the Dynamic Balancing of PBR-1 Rove Flyers, TsNII Mashdetal' System (Pribor dlya proverki dinamicheskoy balansirovki rovnichnykh rogulek PBR-1 sistemy TsNII Mashdetali)

PERIODICAL: Nauch.-issled. tr. Tsentr. n.-i. in-t vspomogat. izdeliy i zapas detaley k tekstil'n. oborud., 1956, Nr 4, pp 32-44

ABSTRACT: Bibliographic entry.

Card 1/1

ZHIDOVICH A.L., kandidat tekhnicheskikh nauk; VAROA. R.Sh., kandidat tekhnicheskikh nauk; FUES, I.I.; IVAROV, V.D., glavnyy konstruktor;

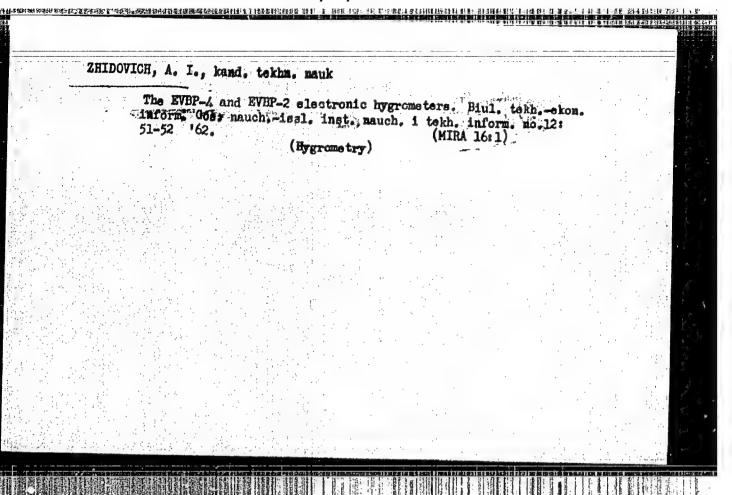
TRUSHIN, Ye.M., inshener-tekhnolog.

Instrument for testing the balance of flyer guides. Tekst.prom.

[MIRA 7:7)

1. Glavnyy inshener savoda im. 1 Maya (for Fuks)

(Spinning machinery)



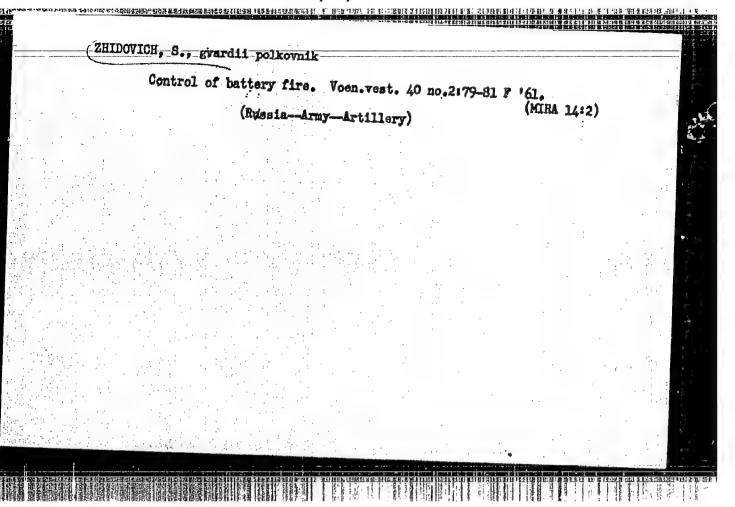
TSAREVA, T.I.; ZHIDOVICH, O.V.

Physiological activity of vater-soluble peat tar. Dokl. AN ESSR
7 no.11:779-781 N '63.

(MIRA 17:9)

1. Institut biologii AN ESSR. Fredstavleno akademikom AN ESSR T.N.

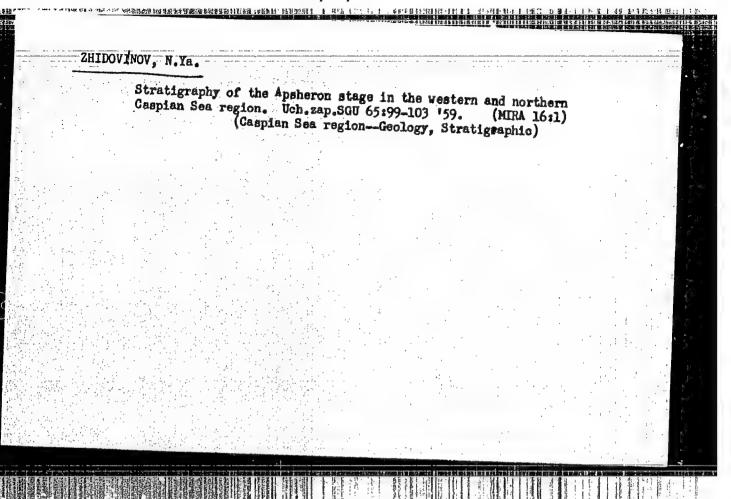
Godnevym.

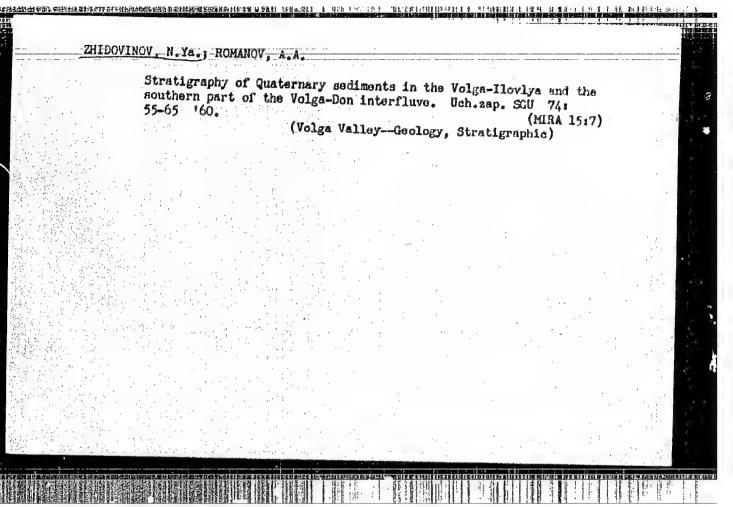


ZHIDOVINOV, N. Ya., Cand Geol-Min Soi — (disc) "Apsheron deposite the Carlo of western and northern Drinaspin." Scratov, 1959. 18 pp (Min of Higher Education USSR. Saratov State U im N.G. Chernyshevskiy).

170 copies (KL, 38-59, 115)

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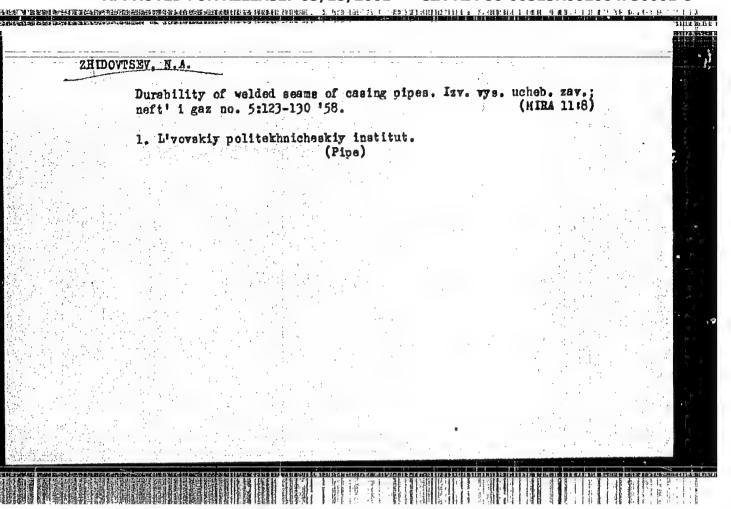


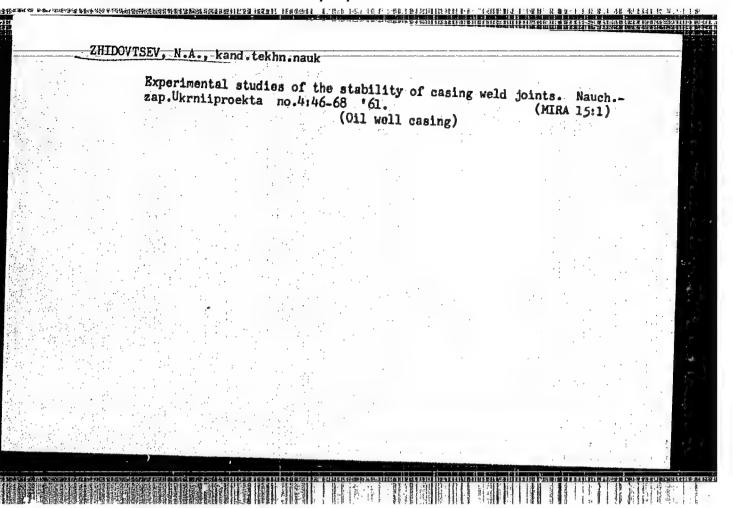


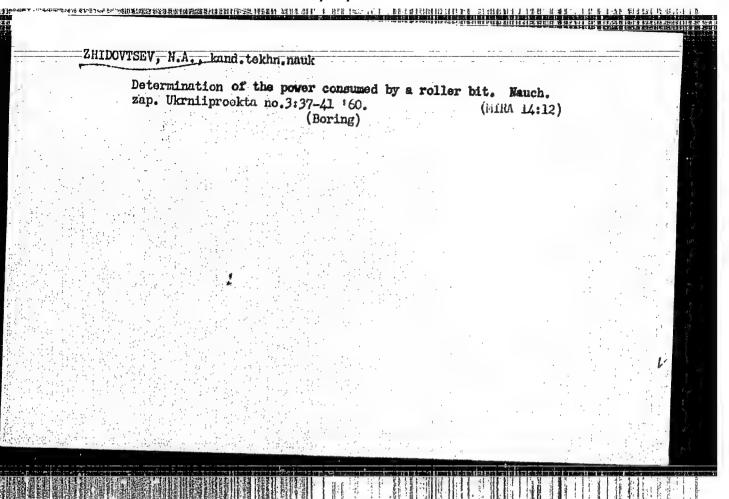
## ZHIDOVINOV, N.Ya. Distribution of rocks and Apsheron stage thicknesses in limits of the

western and northern Caspian sea region. Mauch. dekl. vys. shkely; gool.-goog. nauki 40.3:92-98 '58. (MIRA 12:1)

1. Saratovskiy universitet, geelegicheskiy fakul'tet, kafedra istoricheskoy geolegii. (Caspian Sea region-Geelegy, Structural)



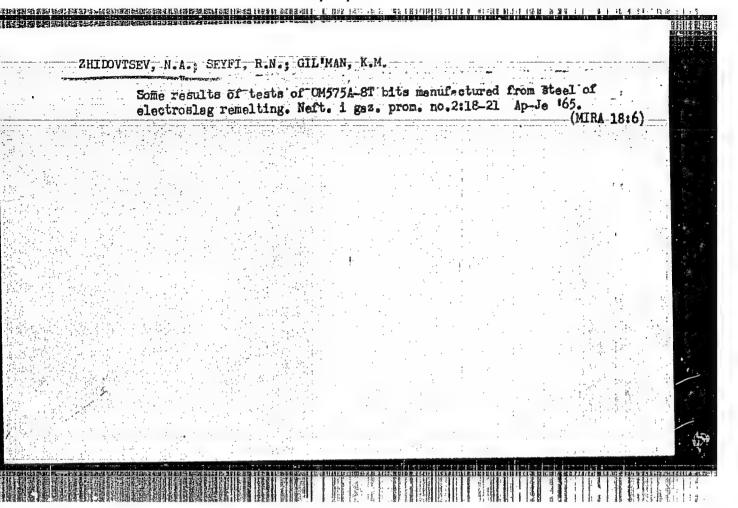




ZHIDOVTSEV, N.A.; OSINCHUK, Z.P.

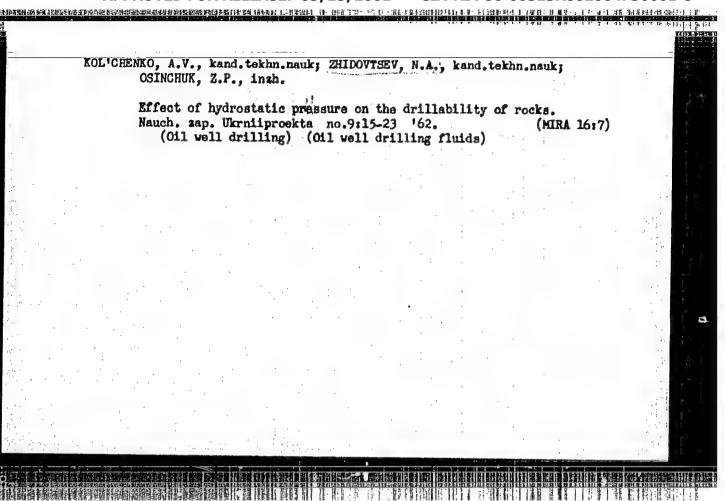
Effect of hydrostatic pressure on drilling indices of the Dolina area. Neft. i gaz. prom. no.2:17-21 Ap-Je 162. (MIRA 15:6)

1. Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy institut ugol'noy, rudnoy, neftyanoy i gazovoy promyshlennosti. (Dolina region (Stanislav Province)—Oil well drilling)



ZHIDOVTSEV, N.A., kand.tekhn.nauk; UZUMOV, E.I., inzh.; YAREMIYCHUK, R.S., inzh.; TISHCHENKO, A.V., inzh.; KRITSUK, A.A., inzh.

Collapse of protective strings on the Zaluzh area. Nauch. zap.
Ukrniiproekta no.9:33-40 '52. (MIRA 16:7)
(Carpathian Mountain region—Boring machinery)



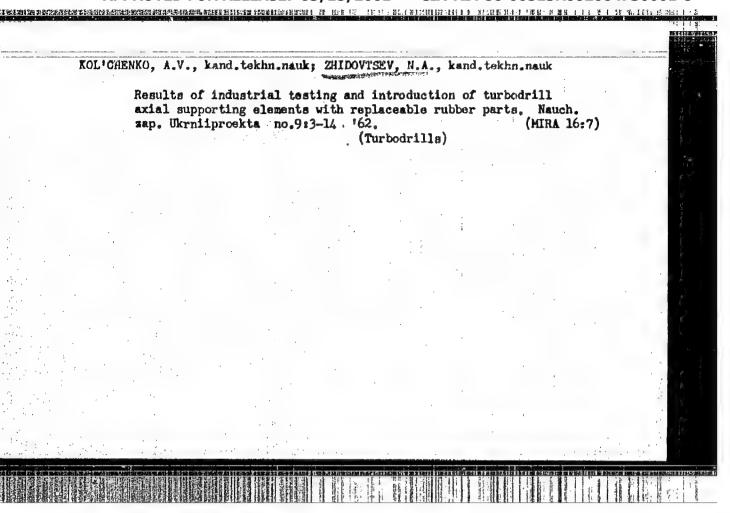
LUTSENKO, N.A., kand.tekhn.nauk; ZHIDOVTSEV, N.A., kand.tekhn.nauk;

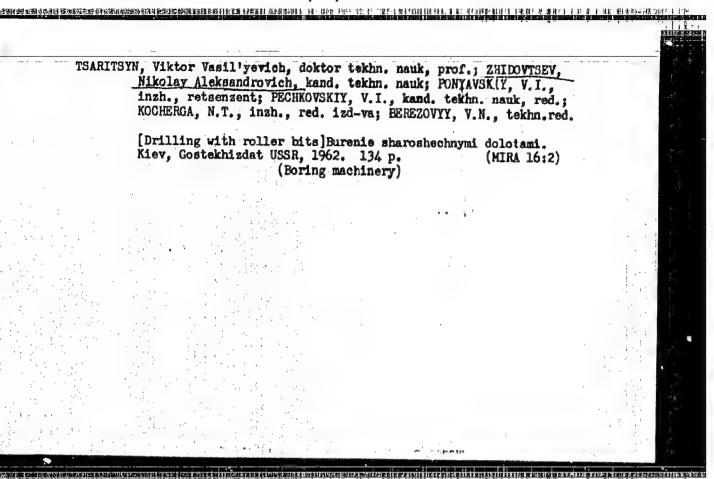
-ORRAZTSOV, O.I., inzh.

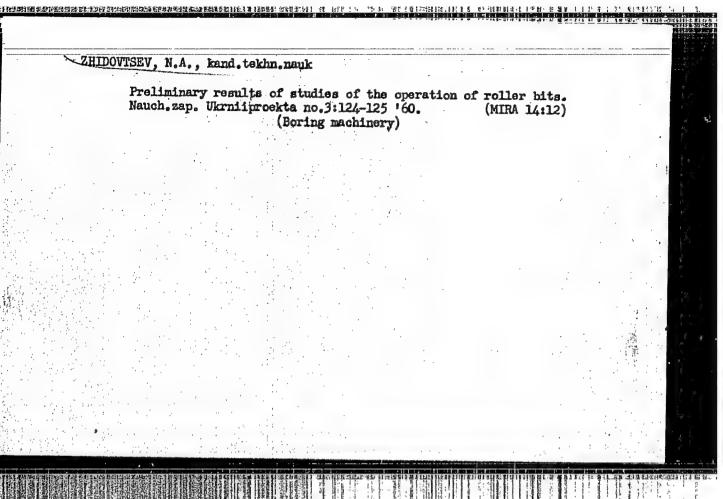
Well cementing on the Shebelinka and Rudki gas fields. Nauch.
zap. Ukrniproekta no.9:49-55 '62. (MIRA 16:7)
(Sebelinka region—Gas well cementing)
(Lvov Province—Gas well cementing)

ZHIDOVTSEV, N.A., kand.tekhn.nauk; KRITSUK, A.A., inzh.; SKACHEDUB, A.M., inzh.

Arrangement of the lower part of a drilling pipe. Nauch. zap. Ukrniiproekta no.9141-48 '62. (MIRA 16:7) (Dolina region (Stanislav Province)--Oil Well drilling--Equipment and supplies)







TSARITSYN, V.V., doktor tekhn.nauk; ZHIDOVTSEV, N.A., kand.tekhn.nauk

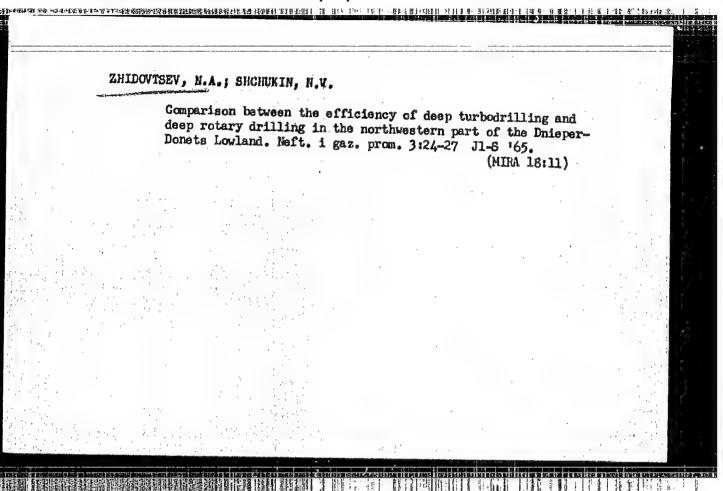
Choice of bits based on the pitch of roller teeth. Nauch.zap.
Ukrniiproekta no.3:25-36 '60. (MIRA 14:12)

(Boring machinery)

ZHIDOVTSEV, N.A., kand. tekhn. nauk; KOL'CHENKO, A.V., kand. tekhn. rauk

Wearing out diamond bits in rotary drilling. Neft. i gaz. prom.
no.2:23-28 Ap-Je '63. (MIRA 17:11)

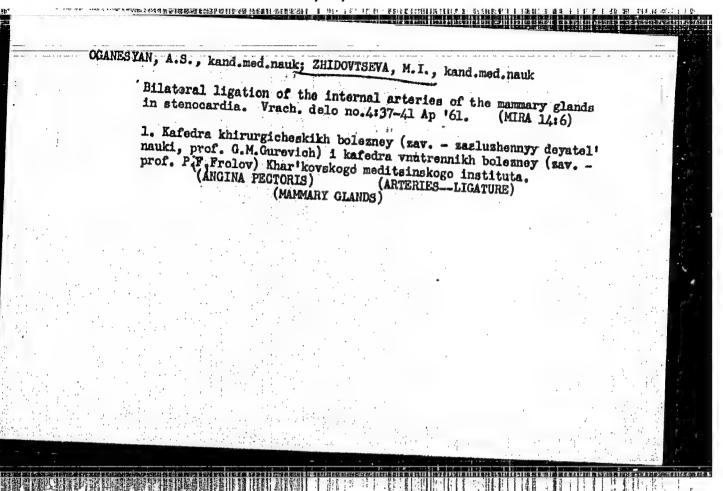
1. Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy institut
ugol'noy, rudnoy, neftyanoy i gazovoy promyshlennosti UkrSSR.



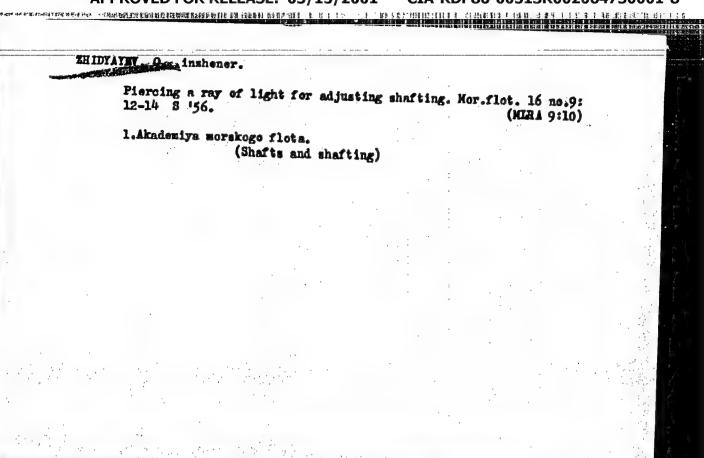
NEOHAYEVSKAYA, M.R.; ZEIDOVTSEY, V.M.; CHERKAS, G.P.; ZIMINA, C.I.;
KALINICHEKKO, N.F.

Effect of X-irradiation on immunity to the pathogens of gas gangrene and tetamus. Zhur.mikrobiol.epid.i dimmun. 32 no.1:113-117 Ja '61.

(CLOSTRIDIUM) (X RAYS—PHYSIOLOGICAL EFFECT)



ZHIDOVISEVA, M. I.: Master Med Sci (diss) -- "Evaluation of the functional state of the liver and pancreas in various stages of hypertension". Khar'kov, 1958. 14 pp (Khar'kov State Med Inst), 200 copies (KL, No 6, 1959, 143)



CIA-RDP86-00513R002064730001-8"

APPROVED FOR RELEASE: 03/15/2001

2HIDYATEV. O.

2HIDYATEV. O.

1. Vedushchiy konstruktor TSentral'nogo proyektno-konstruktorskogo byuro No. 1 Ministerstva morekogo flota.

(Ships-Maintenance and repair)

GARMASHEV, Dmitriy Leonidovich, kand. tekhn. nauk; KUDRYAVTSEV, Fedor Aleksandrovich, inzh.; MARKOV, Aleksandr Pantelsymonovich, inzh.; GERSHTETN, Yu.S., inzh.; retsenzent; ROKHLIN, A.G., kand. tekhn. nauk, retsenzent; ZHIDYAVEV, O.A., nauchmyy red.; OZEROVA, Z.V., red.; KRYAKOVA, D.M., tekhn. red.

[Modern methods of assembling marine shafting] Sovremennye metody montazha sudovykh valoprovodov. Izd.2., ispr. i dop. Leningrad, Gos. sciuznce izd-vo sudostroit. promyshl., 1961. 280 p.

(Shafting) (Ships—Equipment and supplies)

ZHIDYAYEV, O.A., inkhonor.

Laying and checking ship shaft lines. Rech. transp. 15 no.2:21-26

F '56. (Shafts and shafting) (HIRA 9:6)

9/081/65-000/004/c18/051 B166/B186

AUTHORS: Kalabina, A. V., Filippova, A. Kh., Aksenenko, R. A.,
Latys.eva, E. S., Vinceradova, V. V., Shidrayeva, L. M.

TITLE: Studies in the field of synthesis and conversions of viny.ary: esters. No. 22. Synthesis and pertain rears and for ylesters and scetals of bromophenois

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 4, 1965, 258 - 259, atstract 42h125 (Izv. Fiz.-khim. n.-i. in-ta pri Irkutakom un-ta, v. 5, no. 1, 1961, 120 - 130)

TEXT: Vinylation of 2-bromophenol (I) and 4-bromophenol (II) by the favor-skiy - Shostakovskiy method (initial pressure of acetylene '8 - 28 atm 210 - 220°C, 30 - 45 min) in the presence of a large quantity of KOH or NaOH and with high dilution of the reaction mixture with water momettakes with dioxane added) made possible the synthesis of the viny. strong I. plant dioxane added) made possible the synthesis of the viny. strong I. plant 40%, b.p. 93 - 94°C/8 mm Hg, n2°D 1.5676, d4°C 1.4559, and the viny. ester of II (III), yield 12 - 52%, b.p. 215 - 216°C/728 mm Hg, 10°4 - ''0°C, '1 mm Hg, n2°D 1.5685, d4°C 1.4366. The addition of I - II to all phases and Card 1/3

8/081/63/000/004/018/051 8166/8186

Studies in the field of synthesis...

aromatic vinyl esters (with thorough attrring in the presence of ? - 4 drops concentrated HCl) gave a series of CH,CH(OR)OR' acetain IV. Fe.os ere given: the initial vinyl other, quantity in moles, the initial pheno., quantity in moles, reaction temp. in °C and the reaction time in hrs. R and R' in IV, yield %, b.p. in  $^{OC}/mm$  Hg,  $n^{ZQ}D$  and  $d_4^{ZQ}$ : vinylethyl ether (V), 0.430, I, 0.300, 85 - 90, 1.5,  $c_2H_5$ , 0-Brc $_6H_4$ , 40, 135-15, 1.5223, 1.3208; V, 0.120, II, 0.058, 70 - 75, 1.5,  $C_2H_5$ ,  $n-BrC_6H_4$  (Va, 124 - 125/8, 1.5308, 1.3483; vinylbutyl ether, 0.679, II, 0.579, 75 - 86, 1.  $3_4 H_9$ , n-Br $3_6 H_4$  (IVb), 38, 155 - 156/17, 1.5051, 1.2364; winylphenyl ether, 0.167, II, 0.167, 70 - 80, 2, C<sub>6</sub>H<sub>5</sub>, n-BrC<sub>6</sub>H<sub>4</sub>, 47.1, 171 - 173/6, 1.5831, 1.3784; III, C.115, II, 0.104, 70 - 80, 2,  $n-BrC_6H_A$  (IVa), 55, 216 - 217/8,  $m_{\odot}$ ; 4670, 1.5024. -. A study was made of substitution of the Br atom in III and IV by eth, and ethoxyl groups. Experiments to hydrolyze III and IV with dilute aikail to the respective vinyl esters of the phenols lin an autorlave, 220 - 30000, in the presence of Gu, Gl, and Gu shavings; were unauccessful. To himmokes IVa in 20 ml oryoscopic CoH6 were added 0.08 moles C2H6Br and 0.13 moles Na, Card 2/3

Studies in the field of synthesis...

Bi66. A st

which was thoroughly stirred for 2 hrs at 60 - 6590 and then left to stand for 112 hrs, whereupon it was filtered through glass with and the to give IV (R = C2H5, R'= n-C2H5C6H4) ilVd), yield 5090, i.p. 45 94% its sm

Hg, n on 1.5008, da on 0.9851. 5 g IVd and 20 ml 20% h.50 were heated for the stand for not shown as at a 10000 to give 4-ethylphenol (VI), yield 36%, o.p. 41 - 4000,7 mm

Hg, n on 1.5240. In the optimum experiment 0.004 moles IVD 1.007 moles on 0.15 moles as at at ed above, IV were separated (R = C4H6, R' = C2H, 0.H4), yield 64, o.p.

140 - 14200/17 mm Hg, n on 1.4960, da of 0.9275. Under statistic or of time as a 1000 ml C6H6 and 50 g Cu filings was kept at 1300 ml 10%, o.p.

12 - 9300/18 mm Hg, n on 1.5148. A mirror of 1000 ml 10

マンプレントへのようなとはなる場合は計画を見るを言う不能がある。 【 首は 「点

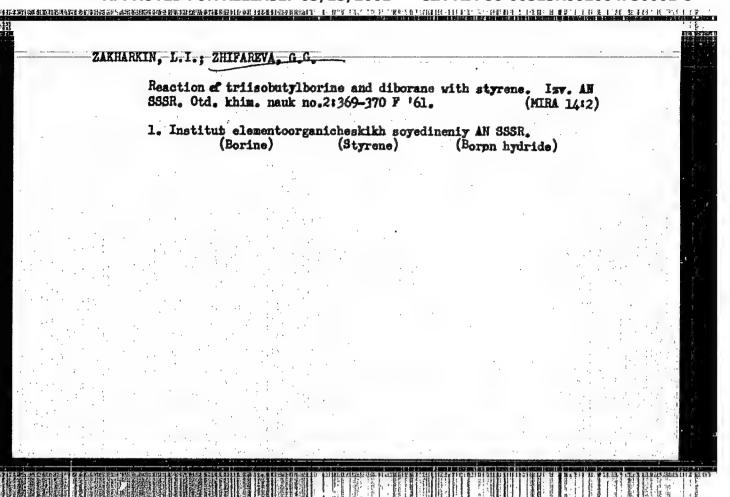
Card 3/3

CHEREPAKHIN, G.K., prof.; ZHIDYAYEVA, T.I.; TSYMBALINA, T.A.; VOSKRESENSKAYA, L.Ye.; PIGOLKIN, N.I.

Prevention of ophthalmoblennorrhea in newborn infants by means of a synthomycin emulsion. Sbor. nauch. rab. Kaf. akush. i gin. GH no.1:115-119 '60. (MIRA 15:4)

1. Iz akushersko-ginekologicheskoy kliniki Gor'kovskogo meditsinskogo instituta, zav.klinikoy - prof. G.K.Cherepakhin.

(CHLORONYCETIN) (CONJUNCTIVITIS, INFANTILE)



HURD, Dallas, T.; BERLIN, L.Ye. [translator]; ZHIGACH, A.F., professor, doktor khimicheskikh nauk; redaktor; OGANDZHANOVA, B.A., redaktor; IOVLEVA, H.A., tekhnicheskiy redaktor

[An introduction to the chemistry of hydrides. Translated from the English] Vvedenie v khimiiu gidridov. Perevod s angliiskogo L.E. Berlina, Pod red. A.F.Zhigacha. Moskva, Isd-vo inostrannoi lit-ry, 1955. 238 p.

(Hydrides)

ZHIGACH, A.F., doktor khimicheskikh nauk, professor; ANTOHOV, I.S., kandidat tekninicheskikh nauk.

Use of hybrides in industry. Khim.prom.no.4:200-202 Je 56. (MIRA 9:10) (Hydrides)

2 higach, A.F.

USSR/Inorganic Chemistry. Complex Compounds.

: Ref Shur - Khimiya, No. 8, 1957, 26449. Abs Jour

Author Inst Zhigach, A.F., Kochneva, L.N.

Title : Nitrogen Containing Derivatives of Diborane.

Orig Pub Uspekhi khimii, 1956, 25, No. 10, 1267 - 1281.

Abstract : Review. Bibliography with 64 titles.

Card 1/1

